

Tessellation 34 (N)

Suite: Tessellation Party!

by Arya Akhavan (September 2014)

Angles for R.I. = 1.540

47 + 14 girdles = 61 facets

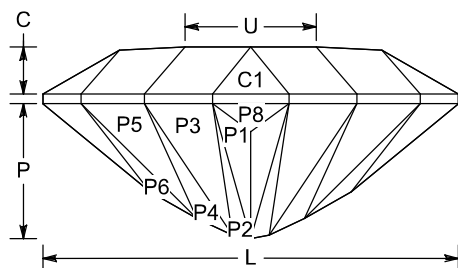
2-fold, mirror-image symmetry

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$L/W = 1.460$ $T/W = 0.494$ $U/W = 0.461$

$P/W = 0.473$ $C/W = 0.165$

$Vol./W^3 = 0.307$



PAVILION

| | | | |
|----|--------|-------------|---------------------|
| P1 | 43.00° | 01-47-49-95 | Cut to centerpoint. |
| P2 | 42.50° | 03-45-51-93 | Meet at culet. |
| G1 | 90.00° | 96-48 | Set stone width. |
| G2 | 90.00° | 07-41-55-89 | Meet P1, P2, G1 |
| P3 | 43.94° | 07-41-55-89 | Level girdle. |
| P4 | 43.57° | 08-40-56-88 | Meet P1, P2, P3 |
| P5 | 43.77° | 09-39-57-87 | Meet G2, P3, P4 |
| P6 | 42.92° | 10-38-58-86 | Meet P4, P5 |
| G3 | 90.00° | 09-39-57-87 | Level girdle. |
| G4 | 90.00° | 16-32-64-80 | Meet P5, P6, G3 |
| P7 | 43.43° | 16-32-64-80 | Level girdle. |
| P8 | 45.44° | 96-48 | Level girdle. |

CROWN

| | | | |
|----|--------|-------------|-------------------------|
| C1 | 33.04° | 96-48 | Set girdle width. |
| C2 | 29.88° | 07-41-55-89 | Level girdle. |
| C3 | 29.88° | 09-39-57-87 | Level girdle. |
| C4 | 33.51° | 16-32-64-80 | Level girdle. |
| C5 | 2.48° | 24-72 | Meet C3, C4 (optional) |
| T | 0.00° | Table | Meet C1, C2; C2, C3, C5 |

Here's yet another design in my Tessellation series. If you don't feel like cutting absurdly shallow crown facets like C5, just cut the table to meet (C3, C4). The pavilion facets cut quickly, so be careful! Works in materials from petalite to tourmaline (RI = 1.50 - 1.62) with no changes. If you want to go higher, you'll have to scale it.

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